TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

AVIRA™ Series – Avira CSD 22

CAUSTIC STABLE DETERGENT & WETTING AGENT

Manufacturer: Tusi Haytham Bio Limited

Product Description:

Avira CSD 22 is a caustic-stable detergent and wetting agent developed for use in textile scouring, bleaching, and other high-alkaline wet processing operations.

It provides excellent wetting, emulsifying, and detergency performance even under strong alkaline and high-temperature conditions.

This product effectively removes oils, waxes, and impurities from natural and synthetic fibers, ensuring uniform absorbency and improved dyeing results.

Key Performance Properties:

- **Excellent stability in high caustic and high-temperature conditions.**
- **Strong detergency, wetting, and emulsifying action.**
- **Effective for scouring, bleaching, and kier-boiling applications.**
- **Works well in combination with alkalis, sequestering agents, and stabilizers.**
- **Low to moderate foaming, suitable for continuous processes.**
- **Biodegradable and meets environmental protection standards.**
- **Compatible with most anionic and nonionic surfactants.**

Typical Properties:

Property	Specification
Appearance	Colorless to light yellow, clear liquid
pH (25 °C)	7 ± 1
Ionic Nature	Nonionic / Anionic blend
Water Miscibility	Completely soluble in water
Foam Character	Low to moderate foaming
Stability	Excellent stability in strong alkali and high temperature

Application:

Avira CSD 22 is suitable for high-alkali scouring, bleaching, and desizing operations.

- **Scouring and Bleaching (Exhaust or Continuous): 2.0 – 5.0 g/L**
- **High Caustic Desizing / Boiling: 3.0 – 6.0 g/L**

Dosage may be adjusted according to fabric type, process temperature, and alkali concentration.

Precautions:

- **Avoid direct mixing with strong acids.**
- **If excessive foam is generated, add a small quantity of compatible defoamer.**
- **Keep containers tightly closed to prevent contamination and evaporation.**

Packing Size:

Avira CSD 22 is available in 60 kg and 120 kg closed-mouth HDPE drums.

Storage:

- **Maximum temperature during storage and transportation: 40 °C.**
- **Store in a cool, dry, and well-ventilated place away from sunlight.**
- **Shelf life: 6 months in original sealed packaging.**
- **The “Best use before end” date is printed on each product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: AVIRA™ Series – Avira CSD 22
Category: Caustic Stable Detergent & Wetting Agent